ABSTRACT OF THE DISCLOSURE

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2   A computer graphics system generates a pixel value for a pixel in an image, the pixel being

3   representative of a point in a scene as recorded on an image plane of a simulated camera. The

4   computer graphics system comprises a sample point generator and a function evaluator. The sample

5   point generator is configured to generate a set of sample points representing at least one simulated

6   element of the simulated camera, the sample points representing elements of, illustratively, for

7   sample points on the image plane, during time interval during which the shutter is open, and on the

8   lens, a Hammersley sequence, and, for use in global illumination, a scrambled Halton sequence. The

9   function evaluator configured to generate at least one value representing an evaluation of said

10   selected function at one of the sample points generated by said sample point generator, the value

11   generated by the function evaluator corresponding to the pixel value.